

CRF Problem Report

The Scientific and Technical Information Center (STIC) experienced a problem when processing the following computer readable form (CRF):

Application Serial Number:	115/	10/	179 <i>2,676</i> 1 .61 03
Filing Date:		_//	1603
Date Processed by STIC:		118	103
	•	1 1	/

STIC Contact: Mark Spencer: Telephone: 703-308-4212; Fax: 703-308-4221

Effective 12/13/03: Telephone: 571-272-2510; Fax: 571-273-0221

	Nai	ture	of	Pro	\mathbf{b}	len	n:
•					_	~	

•
The CRF (was): 1
(circle one) Damaged or Unreadable (for Unreadable, see attached)
Blank (no files on CRF) (see attached)
Empty file (filename present, but no bytes in file) (see attached)
Empty file (filename present, but no bytes in file) (see attached) Virus-infected. Virus name: The STIC will not process the CRF. Not saved in ASCII text
Not saved in ASCII text
Sequence Listing was embedded in the file. According to Sequence Rules,
submitted file should only be the Sequence Listing.
Did not contain a Sequence Listing (see attached sample)
Other, 1 / Discontinuities
Other Churacters appeared in Submitted File. This could indicate NON-ASCIE Churacters appeared in Submitted File. This could indicate
a bad ansic se
PLEASE USE THE CHECKER VERSION 4.1 PROGRAM TO REDUCE ERRORS. / Legi. 1. /
SEE BELOW FOR ADDRESS:

http:/www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

- 1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual ePAVE)
- 2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
- 3. Hand Carry directly to (EFFECTIVE 12/01/2003):
 U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
- 4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03



Ιŀ

RAW SEQUENCE LISTING DATE: 11/18/2003 PATENT APPLICATION: US/10/702,676 TIME: 15:26:42

Input Set : A:\pto.ln.txt

Output Set: N:\CRF4\11182003\J702676.raw

- 3 <110> APPLICANT: LU, YI
- 4 LI, JING
- 6 <120> TITLE OF INVENTION: NUCLEIC ACID ENZYME BIOSENSORS FOR IONS
- 8 <130> FILE REFERENCE: 10322/6
- > 10 <140> CURRENT APPLICATION NUMBER: US/10/702,676
- > 12 <141> CURRENT FILING DATE: 2003-11-06
- > 12 <160> NUMBER OF SEQ ID NOS: 84
- 14 <170> SOFTWARE: PatentIn Ver. 2.1

Does Not Comply
Corrected Diskette Ne ded

, non-ASUT claseden

ORED SEQUENCES

- 1113 <210> SEQ ID NO: 83
- 1114 <211> LENGTH: 107
- 1115 <212> TYPE: DNA
- 1116 <213> ORGANISM: Artificial Sequence
- 1118 <220> FEATURE:
- 1119 <223> OTHER INFORMATION: Description of Artificial Sequence: Predicted
- 1120 secondary structure of the G3 deoxyribozyme
- 1122 <220> FEATURE:
- 1123 <221> NAME/KEY: modified base
- 1124 <222> LOCATION: (67)
- 1125 <223> OTHER INFORMATION: variable nucleotide
- 1127 <220> FEATURE:
- 1128 <221> NAME/KEY: modified_base
- 1129 <222> LOCATION: (69)..(74)
- 1130 <223> OTHER INFORMATION:

- 1134 <220> FEATURE:
- 1135 <223> OTHER INFORMATION: Description of Artificial Sequence: Co-DNA
- > 1137 <400> SEQUENCE: 84
- > 1138 cactatagga agagatggcg acatetettg acceaagaag

- > 1142 ??????????????
- > 1148 23129464/v1



VERIFICATION SUMMARY

DATE: 11/18/2003 PATENT APPLICATION: US/10/702,676 TIME: 15:26:43

Input Set : A:\pto.ln.txt

Output Set: N:\CRF4\11182003\J702676.raw

0 M:270 C: Current Application Number differs, Replaced Current Application Number 2 M:271 C: Current Filing Date differs, Replaced Current Filing Date 00 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0 36 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0 58 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0 05 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0 41 Repeated in SeqNo=12 137 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:83 differs:84 138 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:40 SEQ:83 139 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1 140 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:84 140 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1 142 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:84 142 M:334 W: (2) Invalid Amino Acid in Coding Region, NUMBER OF INVALID KEYS:1 148 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:84 54 Repeated in SeqNo=83 148 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:9

2 M:203 E: No. of Seq. differs, <160> Number Of Sequences: Input (84) Counted (83)